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## NORTHWOODS ENERGY

October 30, 2019

Air and Toxics Technical Enforcement Program  
Office of Enforcement, Compliance, and Environmental Justice  
Environmental Protection Agency Region 8  
Mail Stop: 8ENF-AT  
1595 Wyncoop Street  
Denver, Colorado 80202-1129

Northwoods

**RE: NSPS OOOOa 2019 Report, Northwoods Energy**

Dear Sir/Madam:

Northwoods Energy is submitting the New Source Performance Standards (NSPS) OOOOa report for its assets located in Wyoming as required by 40 CFR 60.5420a(b). In accordance with 40 CFR 60.5420a(b)(11), this report is being submitted directly to Region 8. This report represents the period from August 2, 2018 through August 1, 2019.

Northwoods Energy is submitting this report for the following affected facilities:

- Well affected
- Fugitive Components

Please note the following to the report:

- ALAMO FED 3976-33-28-1FH – A semi-annual LDAR inspection was performed on 8/7/2018. The second semi-annual inspection was unable to be performed during this reporting period as the well was shut-in during two subsequent attempts.
- MAGNOLIA FED 3875-28-33-1FH – A semi-annual LDAR inspection was performed on 11/28/2018 and again on 3/20/2019, which is less than 4 months apart as is required under this subpart. A subsequent LDAR inspection was attempted on 5/18/2019; however, the well was shut-in and an inspection was not performed.
- RHYOLITE FED 4075-28-33-1SH – A semi-annual LDAR inspection was attempted on 5/17/2019; however, the well was shut-in and an inspection was not performed. No other semi-annual LDAR inspections were performed during the reporting period.
- SAWTOOTH FED 3975-11-2-1SH – A semi-annual LDAR inspection was performed on 2/26/2019. No other semi-annual LDAR inspections were performed during the reporting period.
- The initial LDAR inspections for THOR FED 3976-13-24-1FH, RUSTY FED 4075-23-14-01UH, RAIDER FED 3876-11-02-001FH and CHARGER FED 3976-12-01-01FH were not performed within 60 days of initial production.



## NORTHWOODS ENERGY

Should you have any technical questions or need additional information feel free to contact me at (303) 820-3750 or [mobrien@nwoodsenergy.com](mailto:mobrien@nwoodsenergy.com).

Sincerely,

**Northwoods Energy**

(b) (6)



Ms. Meredith O'Brien

*Attachments*



§60.5420a(b)(1)(iv)

A certification by a certifying official of truth, accuracy, and completeness. This certification shall state that, based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate, and complete.

**CERTIFICATION BY A CERTIFYING OFFICIAL OF TRUTH, ACCURACY AND COMPLETENESS**

Based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate, and complete.

SIGNED: (b) (6)

Name of Certifying Official: Ryan Birkenfeld

Title of Certifying Official: Chief Executive Officer

Phone Number: (303) 820-3750



40 CFR Part 60 - Standards of Performance for Crude Oil and Natural Gas Facilities for which Construction, Modification or Reconstruction Commenced After September 18, 2015 - 60.5420a(b) Annual Report  
For each affected facility, an owner or operator must include the information specified in paragraphs (b)(1)(i) through (iv) of this section in all annual reports:

The asterisk (*) next to each field indicates that the corresponding field is required.																		
SITE INFORMATION										ALTERNATIVE ADDRESS INFORMATION (IF NO PHYSICAL ADDRESS AVAILABLE FOR SITE *)				REPORTING INFORMATION		PE Certification	ADDITIONAL INFORMATION	
Facility Record No. * (Field value will automatically generate if a value is not entered.)	Company Name * (§60.5420a(b)(1)(i))	Facility Site Name * (§60.5420a(b)(1)(i))	US Well ID or US Well ID Associated with the Affected Facility, if applicable. * (§60.5420a(b)(1)(i))	Address of Affected Facility * (§60.5420a(b)(1)(i))	Address 2	City *	County *	State Abbreviation *	Zip Code *	Responsible Agency Facility ID (State Facility Identifier)	Description of Site Location (§60.5420a(b)(1)(i))	Latitude of the Site (decimal degrees to 5 decimals using the North American Datum of 1983) (§60.5420a(b)(1)(i))	Longitude of the Site (decimal degrees to 5 decimals using the North American Datum of 1983) (§60.5420a(b)(1)(i))	Beginning Date of Reporting Period.* (§60.5420a(b)(1)(iii))	Ending Date of Reporting Period.* (§60.5420a(b)(1)(iii))	Please provide the file name that contains the certification signed by a qualified professional engineer for each closed vent system routing to a control device or process. * (§60.5420a(b)(12)) Please provide only one file per record.	Please enter any additional information.	Enter associated file name reference.
e.g.: ABC Company	e.g.: XYZ Compressor Station	e.g.: XYZ Compressor Station	e.g.: 12-345-67890-12	e.g.: 123 Main Street	e.g.: Suite 100	e.g.: Brooklyn	e.g.: Kings County	e.g.: NY	e.g.: 11221		e.g.: 7 miles NE of the intersection of Hwy 123 and Hwy 456	e.g.: 34.12345	e.g.: -101.12345	e.g.: 01/01/2016	e.g.: 06/30/2016	e.g.: Certification.pdf or XYZCompressorStation.pdf		e.g.: addinfo.zip or XYZCompressorStation.pdf
1	Northwoods Energy	Trigger Federal	4176-149-005-62135	N/A	N/A	N/A	Campbell	WY	N/A		NENW, Sec. 16, T41N, R76W	(b) (9)		8/2/2018	8/1/2019	N/A	N/A	N/A
2	Northwoods Energy	DICE FEDERAL	3976-8-49-009-29502	N/A	N/A	N/A	Converse	WY	N/A		SESE, Sec. 8, T39N, R76W	(b) (9)		8/2/2018	8/1/2019	N/A	N/A	N/A
3	Northwoods Energy	PADDYS IRISH FED	39749-009-29944	N/A	N/A	N/A	Converse	WY	N/A		SWNW, Sec. 26, T39N, R76W	(b) (9)		8/2/2018	8/1/2019	N/A	N/A	N/A
4	Northwoods Energy	CHICO FEDERAL	4075-49-009-29368	N/A	N/A	N/A	Converse	WY	N/A		NENW, Sec. 29, T40N, R75W	(b) (9)		8/2/2018	8/1/2019	N/A	N/A	N/A
5	Northwoods Energy	ALAMO FED	3976-33-149-009-30103	N/A	N/A	N/A	Converse	WY	N/A		NWNW, Sec. 4, T38N, R76W	(b) (9)		8/2/2018	8/1/2019	N/A	N/A	N/A
6	Northwoods Energy	MAGNOLIA FED	3875-49-009-29836	N/A	N/A	N/A	Converse	WY	N/A		SESE, Sec. 21, T38N, R75W	(b) (9)		8/2/2018	8/1/2019	N/A	N/A	N/A
7	Northwoods Energy	SORREL STATE	3875-2-49-009-30310	N/A	N/A	N/A	Converse	WY	N/A		SWSE, Sec. 21, T38N, R75W	(b) (9)		8/2/2018	8/1/2019	N/A	N/A	N/A
8	Northwoods Energy	CANNON FED	3876-1-49-009-30295	N/A	N/A	N/A	Converse	WY	N/A		NWNW, Sec. 1, T389, T76W	(b) (9)		8/2/2018	8/1/2019	N/A	N/A	N/A
9	Northwoods Energy	BUTTERMILK STATE	3949-009-29560	N/A	N/A	N/A	Converse	WY	N/A		SESE, Sec. 10, T39N, R76W	(b) (9)		8/2/2018	8/1/2019	N/A	N/A	N/A
10	Northwoods Energy	BISCUIT STATE	3976-1-49-009-29943	N/A	N/A	N/A	Converse	WY	N/A		SESE, Sec. 10, T39N, R76W	(b) (9)		8/2/2018	8/1/2019	N/A	N/A	N/A
11	Northwoods Energy	GNEISS FED	4075-27-349-009-29652	N/A	N/A	N/A	Converse	WY	N/A		SWSW, Sec. 22, T40N, R75W	(b) (9)		8/2/2018	8/1/2019	N/A	N/A	N/A
12	Northwoods Energy	GOLDEN SPIKE FED	4049-009-30316	N/A	N/A	N/A	Converse	WY	N/A		SESE, Sec. 9, T40N, R76W	(b) (9)		8/2/2018	8/1/2019	N/A	N/A	N/A
13	Northwoods Energy	ARMY MULE FED	397649-009-29428	N/A	N/A	N/A	Converse	WY	N/A		NWNW, Sec. 2, T39N, R76W	(b) (9)		8/2/2018	8/1/2019	N/A	N/A	N/A
14	Northwoods Energy	KATY FED	3876-10-15-49-009-32863	N/A	N/A	N/A	Converse	WY	N/A		NESE, Sec. 10, T38N, R76W	(b) (9)		8/2/2018	8/1/2019	N/A	N/A	N/A
15	Northwoods Energy	HOOPER FED	3976-3-149-009-31680	N/A	N/A	N/A	Converse	WY	N/A		SWSE, Sec. 34, T40N, R76W	(b) (9)		8/2/2018	8/1/2019	N/A	N/A	N/A
16	Northwoods Energy	SLURRY BOMBER FED	49-009-29251	N/A	N/A	N/A	Converse	WY	N/A		SWSE, Sec. 34, T40N, R76W	(b) (9)		8/2/2018	8/1/2019	N/A	N/A	N/A
17	Northwoods Energy	SAWTOOTH FED	3975-49-009-29880	N/A	N/A	N/A	Converse	WY	N/A		SWSW, Sec. 11, T39N, R75W	(b) (9)		8/2/2018	8/1/2019	N/A	N/A	N/A
18	Northwoods Energy	POWDER HOUND FED	49-009-29633	N/A	N/A	N/A	Converse	WY	N/A		NWNW, Sec. 14, T39, R76W	(b) (9)		8/2/2018	8/1/2019	N/A	N/A	N/A
19	Northwoods Energy	RHYOLITE FED	4075-249-009-29618	N/A	N/A	N/A	Converse	WY	N/A		SESW, Sec. 21, T40N, R75W	(b) (9)		8/2/2018	8/1/2019	N/A	N/A	N/A
20	Northwoods Energy	STEAMBOAT FED	397649-009-29632	N/A	N/A	N/A	Converse	WY	N/A		NENW, Sec. 14, T39N, R76W	(b) (9)		8/2/2018	8/1/2019	N/A	N/A	N/A
21	Northwoods Energy	THOR FED	3976-13-2449-009-30182	N/A	N/A	N/A	Converse	WY	N/A		NWNE, Sec. 13, T39N, R76W	(b) (9)		8/2/2018	8/1/2019	N/A	N/A	N/A
22	Northwoods Energy	RUSTY FED	4075-23-149-009-29541	N/A	N/A	N/A	Converse	WY	N/A		NENE, Sec. 6, T40N, R75W	(b) (9)		8/2/2018	8/1/2019	N/A	N/A	N/A
23	Northwoods Energy	RAIDER FED	3876-11-049-009-35096	N/A	N/A	N/A	Converse	WY	N/A		NENE, Sec. 14, T38N, R76W	(b) (9)		8/2/2018	8/1/2019	N/A	N/A	N/A
24	Northwoods Energy	CHARGER FED	3976-1749-009-29949	N/A	N/A	N/A	Converse	WY	N/A		NWNE, Sec. 13, T39N, R76W	(b) (9)		8/2/2018	8/1/2019	N/A	N/A	N/A
25	Northwoods Energy	SPRUCE OSW08-15H	49-009-29892	N/A	N/A	N/A	Converse	WY	N/A		NWNW, Sec. 5, T40N, R75W	(b) (9)		8/2/2018	8/1/2019	N/A	N/A	N/A
26	Northwoods Energy	SANDSTONE STOUT FE	49-009-29766	N/A	N/A	N/A	Converse	WY	N/A		SWSW Sec. 10, T39N, R75W	(b) (9)		8/2/2018	8/1/2019	N/A	N/A	N/A
27	Northwoods Energy	JUNIPER 27E15-5FH	49-009-32056	N/A	N/A	N/A	Converse	WY	N/A		NWNE, Sec. 27, T38N, R75W	(b) (9)		8/2/2018	8/1/2019	N/A	N/A	N/A
28	Northwoods Energy	ASPEN 11W23-1FH	49-009-29561	N/A	N/A	N/A	Converse	WY	N/A		SWSW, Sec. 11, T39N, R75W	(b) (9)		8/2/2018	8/1/2019	N/A	N/A	N/A
29	Northwoods Energy	ASPEN 10W22-2FH	49-009-29768	N/A	N/A	N/A	Converse	WY	N/A		SESW, Sec. 10, T39N, R75W	(b) (9)		8/2/2018	8/1/2019	N/A	N/A	N/A



The asterisk (\*) next to each field indicates that the corresponding field is required.

			§60.5432a Low Pressure Wells	All Well Completions	Well Affected Facilities Required to Comply with §60.5375a(x) and §60.5375a(f)													
Facility Record No. * (Select from dropdown list - may need to scroll up)	United States Well Number * (§60.5420a(b)(1)(ii))	Records of deviations where well completion operations with hydraulic fracturing were not performed in compliance with the requirements specified in § 60.5375a. * (§60.5420a(b)(2)(i)) and §60.5420a(c)(1)(ii))	Please provide the file name that contains the Record of Determination and Supporting Inputs and Calculations * (§60.5420a(b)(2)(ii)) and §60.5420a(c)(1)(iii)-(iv)) Please provide only one file per record.	Well Completion ID * (§60.5420a(b)(2)(i)) and §60.5420a(c)(1)(ii))	Well Location * (§60.5420a(b)(2)(i)) and §60.5420a(c)(1)(iii)(A)-(B))	Date of Onset of Flowback Following Hydraulic Fracturing or Refracturing * (§60.5420a(b)(2)(i)) and §60.5420a(c)(1)(iii)(A)-(B))	Time of Onset of Flowback Following Hydraulic Fracturing or Refracturing * (§60.5420a(b)(2)(i)) and §60.5420a(c)(1)(iii)(A)-(B))	Date of Each Attempt to Direct Flowback to a Separator * (§60.5420a(b)(2)(i)) and §60.5420a(c)(1)(iii)(A)-(B))	Time of Each Attempt to Direct Flowback to a Separator * (§60.5420a(b)(2)(i)) and §60.5420a(c)(1)(iii)(A)-(B))	Date of Each Occurrence of Returning to the Initial Flowback Stage * (§60.5420a(b)(2)(i)) and §60.5420a(c)(1)(iii)(A)-(B))	Time of Each Occurrence of Returning to the Initial Flowback Stage * (§60.5420a(b)(2)(i)) and §60.5420a(c)(1)(iii)(A)-(B))	Date Well Shut In and Flowback Equipment Permanently Disconnected or the Startup of Production * (§60.5420a(c)(1)(iii)(A)-(B))	Time Well Shut In and Flowback Equipment Permanently Disconnected or the Startup of Production * (§60.5420a(c)(1)(iii)(A)-(B))	Duration of Flowback in Hours * (§60.5420a(b)(2)(i)) and §60.5420a(c)(1)(iii)(A)-(B))	Duration of Recovery in Hours * (Not Required for Wells Complying with §60.5375a(f)) (§60.5420a(b)(2)(i)) and §60.5420a(c)(1)(iii)(A))	Disposition of Recovery * (§60.5420a(b)(2)(i)) and §60.5420a(c)(1)(iii)(A)-(B))	Duration of Combustion in Hours * (§60.5420a(b)(2)(i)) and §60.5420a(c)(1)(iii)(A)-(B))	Duration of Venting in Hours * (§60.5420a(b)(2)(i)) and §60.5420a(c)(1)(iii)(A)-(B))
e.g.: On October 12, 2016, a separator was not onsite for the first 3 hours of the flowback period.			e.g.: lowpressure.pdf or XYZCompressorStation.pdf	e.g.: Completion ABC	e.g.: 34.32843 latitude, 107.16716 longitude	e.g.: 10/16/16	e.g.: 10 a.m.	e.g.: 10/16/16	e.g.: 10 a.m.	e.g.: 10/16/16	e.g.: 10 a.m.	e.g.: 10/16/16	e.g.: 10 a.m.	e.g.: 5	e.g.: 5	e.g.: Used as onsite fuel	e.g.: 5	e.g.: 5
21 49-009-30182			N/A	THOR FED 3976-13-24-1FH	(b) (9)	8/12/2018 6 a.m.		8/15/2018 11 a.m.	NA	NA		8/24/2018 6 a.m.		189		257 Sales	32	0
22 49-009-29541			N/A	RUSTY FED 4075-23-14-01UH		8/30/2018 1 p.m.		8/30/2018 5 p.m.	NA	NA		8/30/2018 6 a.m.		110		118 Sales	180	0
23 49-009-35096			N/A	RAIDER FED 3876-11-02-001FH		8/6/2018 7 a.m.		8/6/2018 2 p.m.	NA	NA		8/20/2018 7 a.m.		137		114 Sales	0	0
24 49-009-29949			N/A	CHARGER FED 3976-12-01-01FH		8/11/2018 12 p.m.		8/13/2018 8 a.m.	NA	NA		8/24/2018 6 a.m.		107		287 Sales	31	0
25 49-009-29892			N/A	SPRUCO OSWOB-1SH		1/28/2019 2 p.m.		2/1/2019 3 p.m.	NA	NA		2/5/2019 6 a.m.		209		0 N/A	112	0
26 49-009-29766			N/A	SANDSTONE STOUT FED 3975-10-3-1SH		1/15/2019 5 p.m.	NA	NA	NA	NA		1/28/2019 8 a.m.		128		0 N/A	0	0
27 49-009-32056			N/A	JUNIPER 27E15-5FH		5/17/2019 1 p.m.		5/20/2019 5 p.m.	NA	NA		5/31/2019 12 p.m.		136		260 Sales	0	0
28 49-009-29561			N/A	ASPEN 11W23-1FH		1/10/2019 12 p.m.		1/12/2019 4 p.m.	NA	NA		1/24/2019 6 a.m.		131		279 Sales	207	0
29 49-009-29768			N/A	ASPEN 10W22-2FH		1/15/2019 2 p.m.		1/17/2019 10 p.m.	NA	NA		1/30/2019 9 a.m.		156		300 Sales	0	0



Exceptions Under §60.5375(a)(3) - Technically Infeasible to Route to the Gas Flow Line or Collection System, Reinject into a Well, Use as an Onsite Fuel Source, or Use for Another Useful Purpose Served by a Purchased Fuel or Raw Material													Well Affected Facilities Meeting the Criteria of §60.51				
Reason for Venting in lieu of Capture or Combustion * (§60.5420a(b)(2)(i) and §60.5420a(c)(1)(B)(A)-(B))	Well Location * (§60.5420a(b)(2)(i) and §60.5420a(c)(1)(B)(i))	Specific Exception Claimed * (§60.5420a(b)(2)(i) and §60.5420a(c)(1)(B)(i))	Starting Date for the Period the Well Operated Under the Exception * (§60.5420a(b)(2)(ii) and §60.5420a(c)(1)(B)(ii))	Ending Date for the Period the Well Operated Under the Exception * (§60.5420a(b)(2)(ii) and §60.5420a(c)(1)(B)(ii))	Why the Well Meets the Claimed Exception * (§60.5420a(b)(2)(ii) and §60.5420a(c)(1)(B)(ii))	Name of Nearest Gathering Line * (§60.5420a(b)(2)(ii) and §60.5420a(c)(1)(B)(ii))	Location of Nearest Gathering Line * (§60.5420a(b)(2)(ii) and §60.5420a(c)(1)(B)(ii))	Technical Considerations Preventing Routing to this Line * (§60.5420a(b)(2)(ii) and §60.5420a(c)(1)(B)(ii))	Capture, Reinjection, and Reuse Technologies Considered * (§60.5420a(b)(2)(ii) and §60.5420a(c)(1)(B)(ii))	Aspects of Gas or Equipment Preventing Use of Recovered Gas as a Fuel Onsite * (§60.5420a(b)(2)(ii) and §60.5420a(c)(1)(B)(ii))	Technical Considerations Preventing Use of Recovered Gas for Other Useful Purpose * (§60.5420a(b)(2)(ii) and §60.5420a(c)(1)(B)(ii))	Additional Reasons for Technical Infeasibility * (§60.5420a(b)(2)(ii) and §60.5420a(c)(1)(B)(ii))	Well Location* (§60.5420a(b)(2)(i) and §60.5420a(c)(1)(B)(i) and (C))	Date of Onset of Flowback Following Hydraulic Fracturing or Refracturing * (§60.5420a(b)(2)(ii) and §60.5420a(c)(1)(B)(ii) and (C))	Time of Onset of Flowback Following Hydraulic Fracturing or Refracturing * (§60.5420a(b)(2)(ii) and §60.5420a(c)(1)(B)(ii) and (C))	Date Well Shut In and Flowback Equipment Permanently Disconnected or the Startup of Production * (§60.5420a(b)(2)(ii) and §60.5420a(c)(1)(B)(ii) and (C))	Time Well Shut In and Flowback Equipment Permanently Disconnected or the Startup of Production * (§60.5420a(b)(2)(ii) and §60.5420a(c)(1)(B)(ii) and (C))
e.g.: No onsite storage or combustion unit was available at the time of completion.	e.g.: 34.12345 latitude, -101.12345 longitude	e.g.: Technical infeasibility under §60.5375(a)(3)	e.g.: 10/16/2016	e.g.: 09/16/2016	e.g.: As further described in this report, technical issues prevented the use of the gas for useful purposes.	e.g.: ABC Line	e.g.: 100 miles away at 34.12345 latitude, -101.12345 longitude	e.g.: Right of Use	e.g.: on-site generators	e.g.: gas quality	e.g.: gas quality	e.g.: well damage or clean-up	e.g.: 34.12345 latitude, -101.12345 longitude	e.g.: 10/16/16	e.g.: 10 a.m.	e.g.: 10/16/16	e.g.: 10 a.m.
NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA



75a)(1)(B)(A) - Not Hydraulically Fractured/Refractured with Liquids or Do Not Generate Condensate, Intermediate Hydrocarbon Liquids, or Produced Water (No Liquid Collection System or Separator Onsite)										Well Affected Facilities Required to Comply with Both §60.5375a)(1) and (3) Using a Digital Photo in lieu of Records Required by §60.5420a)(c)(1)(i) through (iv)	Well Affected Facilities Meeting the Criteria of §60.5375a)(g) - <300 scf of Gas per Stock Tank Barrel of Oil Produced		
Duration of Flowback in Hours * (§60.5420a)(b)(2)(i) and §60.5420a)(c)(1)(B)(A) and (C)	Duration of Combustion in Hours * (§60.5420a)(b)(2)(i) and §60.5420a)(c)(1)(B)(A) and (C)	Duration of Venting in Hours * (§60.5420a)(b)(2)(i) and §60.5420a)(c)(1)(B)(A) and (C)	Reason for Venting in lieu of Capture or Combustion * (§60.5420a)(b)(2)(i) and §60.5420a)(c)(1)(B)(A) and (C)	Does well still meet the conditions of §60.5375a)(1)(B)(A)? * (§60.5420a)(b)(2)(i) and §60.5420a)(c)(1)(B)(C)(2)(i)	If applicable: Date Well Completion Operation Stopped * (§60.5420a)(b)(2)(i) and §60.5420a)(c)(1)(B)(C)(2)(i)	If applicable: Time Well Completion Operation Stopped * (§60.5420a)(b)(2)(i) and §60.5420a)(c)(1)(B)(C)(2)(i)	If applicable: Date Separator Installed * (§60.5420a)(b)(2)(i) and §60.5420a)(c)(1)(B)(C)(2)(i)	If applicable: Time Separator Installed * (§60.5420a)(b)(2)(i) and §60.5420a)(c)(1)(B)(C)(2)(i)	Are there liquids collection at the well site? Based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate, and complete. * (§60.5420a)(b)(2)(i) and §60.5420a)(c)(1)(B)(C)(2)(i)	Please provide the file name that contains the Digital Photograph with Date Taken and Latitude and Longitude imbedded (or with Visible GPS), Showing Required Equipment. (§60.5420a)(b)(2)(i) and §60.5420a)(c)(1)(v) - Please provide only one file per record.	Well Location* (§60.5420a)(b)(2)(i) and §60.5420a)(c)(1)(v)(B))  Please provide the file name that contains the Record of Analysis Performed to Claim Well Meets §60.5375a)(g), including GOR Values for Established Leases and Data from Wells in the Same Basin and Field * (§60.5420a)(b)(2)(i) and §60.5420a)(c)(1)(v)(A)) Please provide only one file per record.	Does the well meet the requirements of §60.5375a)(g)? Based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate, and complete. * (§60.5420a)(b)(2)(i) and §60.5420a)(c)(1)(v)(C))	
e.g.: 5	e.g.: 5	e.g.: 5	e.g.: No onsite storage or combustion unit was available at the time of completion.	e.g.: Yes	e.g.: 10/16/16	e.g.: 10 a.m.	e.g.: 10/16/16	e.g.: 10 a.m.	e.g.: No	e.g.: completion1.pdf or XYZCompressorStation.pdf	e.g.: 34.12345 latitude, -101.12345 longitude	e.g.: GORcalcs.pdf or XYZCompressorStation.pdf	e.g.: Yes
NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA



40 CFR Part 60 - Standards of Performance for Certain Oil and Natural Gas Facilities for which Construction, Modification or Reconstruction Commenced After September 18, 2015 - 60.5420a(h) Annual Report

For the collection of fugitive emissions components at each well site and the collection of fugitive emissions components at each compressor station within the company-defined area, an owner or operator must include the records of each monitoring survey including the information specified in paragraphs (b)(7)(i) through (ii) of this section in all annual reports.

The asterisk (\*) next to each field indicates that the corresponding field is required.

Facility Record No. * (Select from dropdown list - may need to scroll up)	Identification of Each Affected Facility * (60.5420a)(1)(i))	Date of Survey * (60.5420a)(7)(i))	Survey Begin Time * (60.5420a)(7)(ii))	Survey End Time * (60.5420a)(7)(iii))	Name of Surveyor * (60.5420a)(7)(iv))	Ambient Temperature During Survey * (60.5420a)(7)(v))	Sky Conditions During Survey * (60.5420a)(7)(vi))	Maximum Wind Speed During Survey * (60.5420a)(7)(vii))	Monitoring Instrument Used * (60.5420a)(7)(viii))	Deviations From Monitoring Plan (If none, state none.) * (60.5420a)(7)(ix))	Type of Component for which Fugitive Emissions Detected * (60.5420a)(7)(x))	Number of Each Component Type for which Fugitive Emissions Detected * (60.5420a)(7)(xi))	Type of Component Not Repaired as Required in 60.5397a(i) * (60.5420a)(7)(xii))	Number of Each Component Type Not Repaired as Required in 60.5397a(i) * (60.5420a)(7)(xiii))	Type of Difficult-to-Monitor Component Monitored * (60.5420a)(7)(xiv))	Number of Each Difficult-to-Monitor Component Type Monitored * (60.5420a)(7)(xv))	Type of Unavailable-to-Monitor Component Monitored * (60.5420a)(7)(xvi))	Number of Each Unavailable-to-Monitor Component Type Monitored * (60.5420a)(7)(xvii))	Date of Successful Repair of Fugitive Emissions Component * (60.5420a)(7)(xviii))	Type of Component Placed on Delay of Repair * (60.5420a)(7)(xix))	Number of Each Component Type Placed on Delay of Repair * (60.5420a)(7)(xx))	Explanation for Delay of Repair * (60.5420a)(7)(xxi))	Type of Instrument Used to Resurvey Repaired Components Not Repaired During Original Survey * (60.5420a)(7)(xxii))
e.g.: Well Site ABC	e.g.: R/L12/17	e.g.: 10:00 am	e.g.: 1:00 pm	e.g.: John Smith	e.g.: 10°F	e.g.: Sunny, no clouds	e.g.: 2 mph	e.g.: Company ABC optical gas imaging camera	e.g.: None	e.g.: None	e.g.: Valve	e.g.: 1	e.g.: Valve	e.g.: 1	e.g.: Valve	e.g.: 1	e.g.: Valve	e.g.: 1	e.g.: 11/10/18	e.g.: Valve	e.g.: 1	e.g.: Unable to repair until next shutdown	e.g.: Company ABC optical gas imaging camera
1	Trigger Federal 4176	12/11/18	7:36 AM	7:54 AM	(b) (6)	28 Overcast	3 FLIR GF320 OGI	None	None	None	None	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
1	Trigger Federal 4176	5/15/2019	10:00 AM	10:41 AM	(b) (6)	64 Partly Cloudy	8.9 OGI	None	None	None	None	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
2	DICE FEDERAL 1976-8	12/11/2018	9:07 AM	3:01 PM	(b) (6)	18 Partly Cloudy	25 FLIR GF320 OGI	None	None	None	None	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
2	DICE FEDERAL 1976-8	5/16/2019	5:55 PM	6:31 PM	(b) (6)	66 Overcast	18.6 OGI	None	None	None	None	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
3	PADDYS IRISH FED 39	8/9/2018	Reported on RY2018	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	2/25/2019	NA	NA	NA	
3	PADDYS IRISH FED 39	1/25/2019	5:13 PM	6:04 PM	NA	8 Overcast	8.3 OGI	None	Thief hatch	NA	Thief hatch	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
4	CHICO FEDERAL 4075	8/9/2018	Reported on RY2018	NA	NA	NA	NA	NA	NA	NA	Thief hatch	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
4	CHICO FEDERAL 4075	1/24/2019	2:35 PM	3:01 PM	NA	9 Clear	1.2 OGI	None	None	None	None	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
5	ALAMO FED 3976-13	8/7/2018	Reported on RY2018	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
5	ALAMO FED 3976-13	1/21/2019	Shut in	Shut in	Shut in	Shut in	Shut in	Shut in	Shut in	Shut in	Shut in	Shut in	Shut in	Shut in	Shut in	Shut in	Shut in	Shut in	Shut in	Shut in	Shut in	Shut in	
6	MAGNOLIA FED 3875	5/18/2019	Shut in	Shut in	Shut in	Shut in	Shut in	Shut in	Shut in	Shut in	Shut in	Shut in	Shut in	Shut in	Shut in	Shut in	Shut in	Shut in	Shut in	Shut in	Shut in	Shut in	
6	MAGNOLIA FED 3875	11/28/2018	1:44 p.m.	1:51 p.m.	NA	42 Partly Cloudy	30 FLIR GF320 OGI	None	None	None	None	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
6	MAGNOLIA FED 3875	1/30/2019	3:22 PM	4:47 PM	NA	43 Clear	10.1 OGI	None	Thief hatch	NA	Thief hatch	1	NA	NA	NA	NA	NA	NA	3/20/2019	NA	NA	NA	
7	SORREL STATE 3875-2	5/18/2019	Shut in	Shut in	Shut in	Shut in	Shut in	Shut in	Shut in	Shut in	Shut in	Shut in	Shut in	Shut in	Shut in	Shut in	Shut in	Shut in	Shut in	Shut in	Shut in	Shut in	
7	SORREL STATE 3875-2	8/8/2018	Reported on RY2018	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
8	CANNON FED 3876-1	1/20/2019	3:22 PM	4:47 PM	NA	43 Clear	10.7 OGI	None	Thief hatch	NA	Thief hatch	4	NA	NA	NA	NA	NA	NA	3/20/2019	NA	NA	NA	
8	CANNON FED 3876-1	8/7/2018	Reported on RY2018	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
8	CANNON FED 3876-1	1/21/2019	10:51 AM	12:45 PM	NA	44 Clear	3.5 OGI	None	Valve, thief hatch, connector	NA	Valve, thief hatch, connector	7	NA	NA	NA	NA	NA	NA	3/11/2019	NA	NA	NA	
9	BUTTERMILK STATE 3	8/9/2018	Reported on RY2018	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
9	BUTTERMILK STATE 3	1/25/2019	3:40 PM	4:58 PM	NA	4 Partly Cloudy	6.5 OGI	None	Thief hatch	NA	Thief hatch	1	NA	NA	NA	NA	NA	NA	2/25/2019	NA	NA	NA	
10	BISCUIT STATE 3976-1	8/9/2018	Reported on RY2018	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
10	BISCUIT STATE 3976-1	1/21/2019	3:40 PM	4:58 PM	NA	4 Partly Cloudy	6.5 OGI	None	Valve	NA	Valve	5	NA	NA	NA	NA	NA	NA	2/25/2019	NA	NA	NA	
11	GNEISS FED 4075-21	8/24/2018	Reported on RY2018	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
11	GNEISS FED 4075-21	1/24/2019	12:42 PM	2:30 PM	NA	7 Clear	2.6 OGI	None	Thief hatch	NA	Thief hatch	1	NA	NA	NA	NA	NA	NA	2/24/2019	NA	NA	NA	
12	GOLDEN SPIKE FED 4E	8/20/2018	Reported on RY2018	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
12	GOLDEN SPIKE FED 4E	1/22/2019	3:17 PM	4:20 PM	NA	14 Partly Cloudy	13.5 OGI	None	Valve, thief hatch	NA	Valve, thief hatch	6	NA	NA	NA	NA	NA	NA	1/22/2019	NA	NA	NA	
13	ARMY MULE FED 397	8/14/2018	Reported on RY2018	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
13	ARMY MULE FED 397	1/23/2019	5:43 PM	7:27 PM	NA	15 Partly Cloudy	3.4 OGI	None	Connector, thief hatch	NA	Connector, thief hatch	2	NA	NA	NA	NA	NA	NA	2/23/2019	NA	NA	NA	
14	KATY FED 3876-10-15	11/17/2018	11:38 a.m.	12:29 p.m.	NA	17 Overcast	28 FLIR GF320 OGI	None	None	None	None	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
14	KATY FED 3876-10-15	5/18/2019	4:50 PM	Not recorded	NA	33 Overcast	9.2 OGI	None	Valve	NA	Valve	1	NA	NA	NA	NA	NA	NA	5/18/2019	NA	NA	NA	
15	HOOPER FED 3976-3	8/13/2018	Reported on RY2018	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
15	HOOPER FED 3976-3	1/21/2019	6:01 PM	8:30 PM	NA	51 Partly Cloudy	7.2 OGI	None	Valve, thief hatch, vent line	NA	Valve, thief hatch, vent line	4	NA	NA	NA	NA	NA	NA	1/21/2019	NA	NA	NA	
16	SLURRY BOMBER FED	8/11/2018	Reported on RY2018	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
16	SLURRY BOMBER FED	1/21/2019	6:01 PM	8:30 PM	NA	11 Partly Cloudy	7.2 OGI	None	Pipe nipple, union	NA	Pipe nipple, union	3	NA	NA	NA	NA	NA	NA	1/21/2019	NA	NA	NA	
17	SAWTOOTH FED 2071	1/26/2019	2:53 PM	4:37 PM	NA	10 Partly Cloudy	12.4 OGI	None	Valve	NA	Valve	1	NA	NA	NA	NA	NA	NA	2/26/2019	NA	NA	NA	
18	POWDER HOUND REC	8/9/2018	Reported on RY2018	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
18	POWDER HOUND REC	1/24/2019	5:30 PM	7:15 PM	NA	9 Partly Cloudy	7.2 OGI	None	Thief hatch	NA	Thief hatch	2	NA	NA	NA	NA	NA	NA	2/24/2019	NA	NA	NA	
19	RYNOLITE FED 4075-2	5/11/2019	Shut in	Shut in	Shut in	Shut in	Shut in	Shut in	Shut in	Shut in	Shut in	Shut in	Shut in	Shut in	Shut in	Shut in	Shut in	Shut in	Shut in	Shut in	Shut in	Shut in	
20	STEAMBOAT FED 397	8/24/2018	Reported on RY2018	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
20	STEAMBOAT FED 397	1/24/2019	5:30 PM	7:30 PM	NA	9 Partly Cloudy	7.2 OGI	None	Packaging	NA	Packaging	2	NA	NA	NA	NA	NA	NA	2/24/2019	NA	NA	NA	
21	THOR FED 3976-13-21	8/24/2018	1:00PM	1:04p.m.	NA	80 Clear	8 FLIR GF320 OGI	None	Valve	NA	Valve	1	NA	NA	NA	NA	NA	NA	8/24/2018	NA	NA	NA	
21	THOR FED 3976-13-21	1/24/2019	3:30 PM	5:12 PM	NA	9 Partly Cloudy	5.6 OGI	None	Thief hatch, nipple, bushing, union	NA	Thief hatch, nipple, bushing, union	10	NA	NA	NA	NA	NA	NA	2/24/2019	NA	NA	NA	
22	RUSTY FED 4075-23-1	12/9/2018	12:08 p.m.	2:15PM	NA	11 Partly Cloudy	10 FLIR GF320 OGI	None	Valve, union	NA	Valve, union	2	NA	NA	NA	NA	NA	NA	12/9/2018	NA	NA	NA	
22	RUSTY FED 4075-23-1	5/11/2019	10:02 AM	11:09 AM	NA	42 Overcast	13 OGI	None	Thief hatch, house	NA	Thief hatch, house	2	NA	NA	NA	NA	NA	NA	5/11/2019	NA	NA	NA	
23	BAIDER FED 3876-13	11/21/2018	1:00 p.m.	1:51 p.m.	NA	40 Overcast	28 FLIR GF320 OGI	None	None	NA	None	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
23	BAIDER FED 3876-13	6/9/2019	11:30 AM	1:08 PM	NA	15 Partly Cloudy	18.7 OGI	None	Thief hatch, connector	NA	Thief hatch, connector	3	NA	NA	NA	NA	NA	NA	6/9/2019	NA	NA	NA	
24	CHARGER FED 3976-1	12/18/2018	9:15 AM	10:21 AM	NA	36 Clear	18 FLIR GF320 OGI	None	None	NA	None	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
24	CHARGER FED 3976-1	6/9/2019	11:31 AM	12:51 PM	NA	48 Overcast	3.2 OGI	None	Valve, thief hatch, connector	NA	Valve, thief hatch, connector	4	NA	NA	NA	NA	NA	NA	6/9/2019	NA	NA	NA	
25	SPRUCE OSWEGO 13H	1/23/2019	9:05 AM	12:30 PM	NA	5 Partly Cloudy	6.2 OGI	None	Gasket, valve, nipple, thief hatch	NA	Gasket, valve, nipple, thief hatch	7	NA	NA	NA	NA	NA	NA	1/23/2019	NA	NA	NA	
26	SANDSTONE SLOUT F	1/24/2019	4:48 PM	5:46 PM	NA	8 Partly Cloudy	8.1 OGI	None	None	NA	None	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
27	JUNIPER 27L15-54H	6/9/2019	2:45 PM	4:28 PM	NA	58 Partly Cloudy	15.4 OGI	None	Connector, sight glass	NA	Connector, sight glass	4	NA	NA	NA	NA	NA	NA	6/9/2019	NA	NA	NA	
28	ASPEN 11W23-1FH	1/24/2019	2:51 PM	4:37 PM	NA	10 Partly Cloudy	12.4 OGI	None	Thief hatch, valve	NA	Thief hatch, valve	2	NA	NA	NA	NA	NA	NA	2/24/2019	NA	NA	NA	
29	ASPEN 10W22-2FH	1/24/2019	4:48 PM	5:46 PM	NA	8 Partly Cloudy	8.1 OGI	None	Thief hatch	NA	Thief hatch	1	NA	NA	NA	NA	NA	NA	2/24/2019	NA	NA	NA	



DGI	Compression Station Affected Facility Only	
Training and Experience of Surveyor * (B60.5435a)(X7)(9)	Was a monitoring survey conducted on 8 60.5387a(25) * (B60.5435a)(X7)	If a monitoring survey was started, the calendar month that made up the quarterly monitoring period for which the monitoring survey was used. (B60.5426a)(X7)